

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLS15FSUNVDBZK-12W-5000K

Issue Date: 4/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 4/3/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: GFLS15FSUNVDBZK-12W-5000K
Description: SLIM LED FLOODLIGHT
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

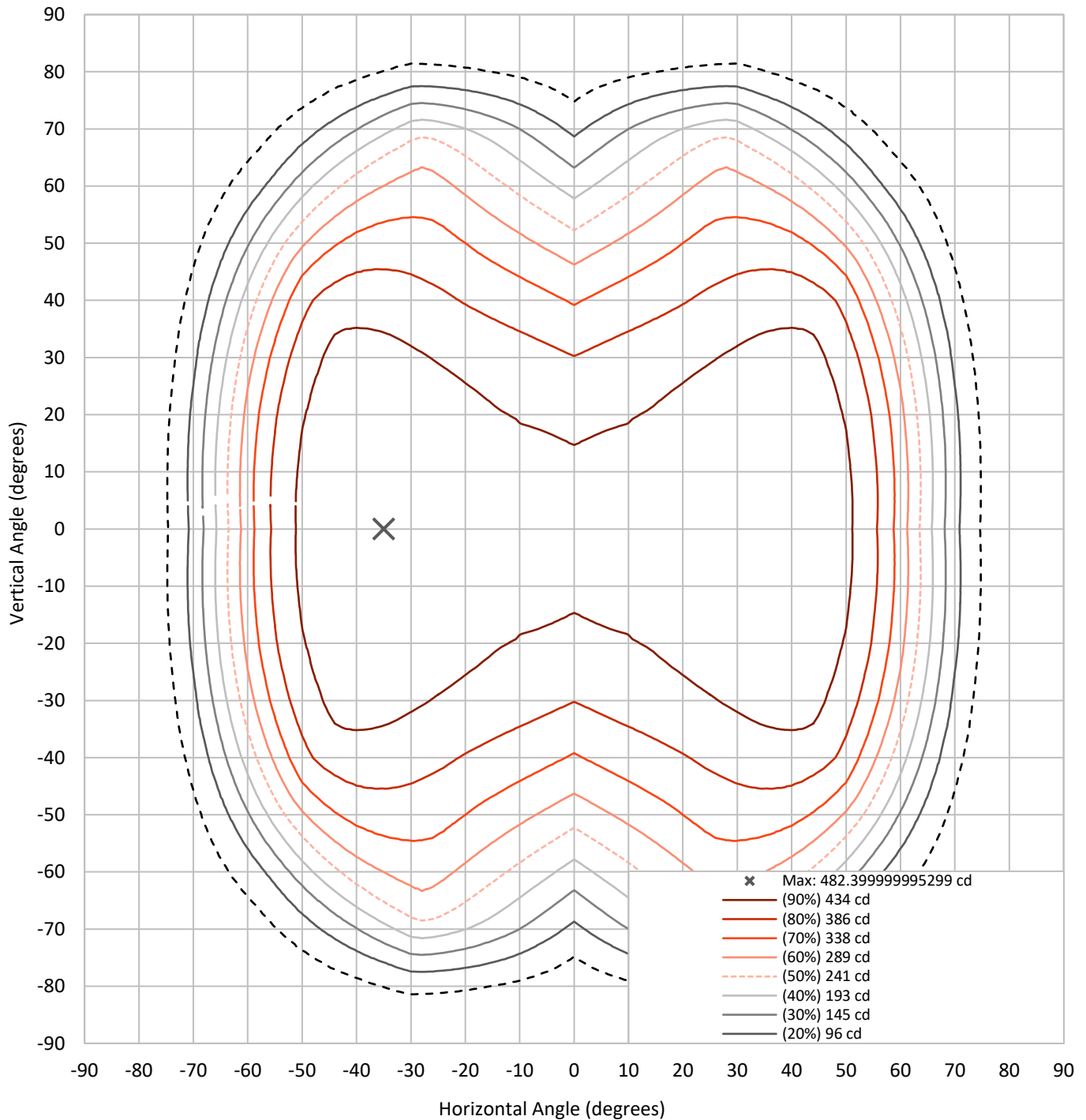
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1659.3 lumens	Max Intensity:	482.4 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	143.0 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.2' x L: 0.31' x H: 0.15')		
Beam Angle (50%):	127°H x 130.8°V	Field Angle (10%):	149.3°H x 160.3°V
Beam Lumens:	1440.2 lumens	Field Lumens:	1639.1 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	11.6		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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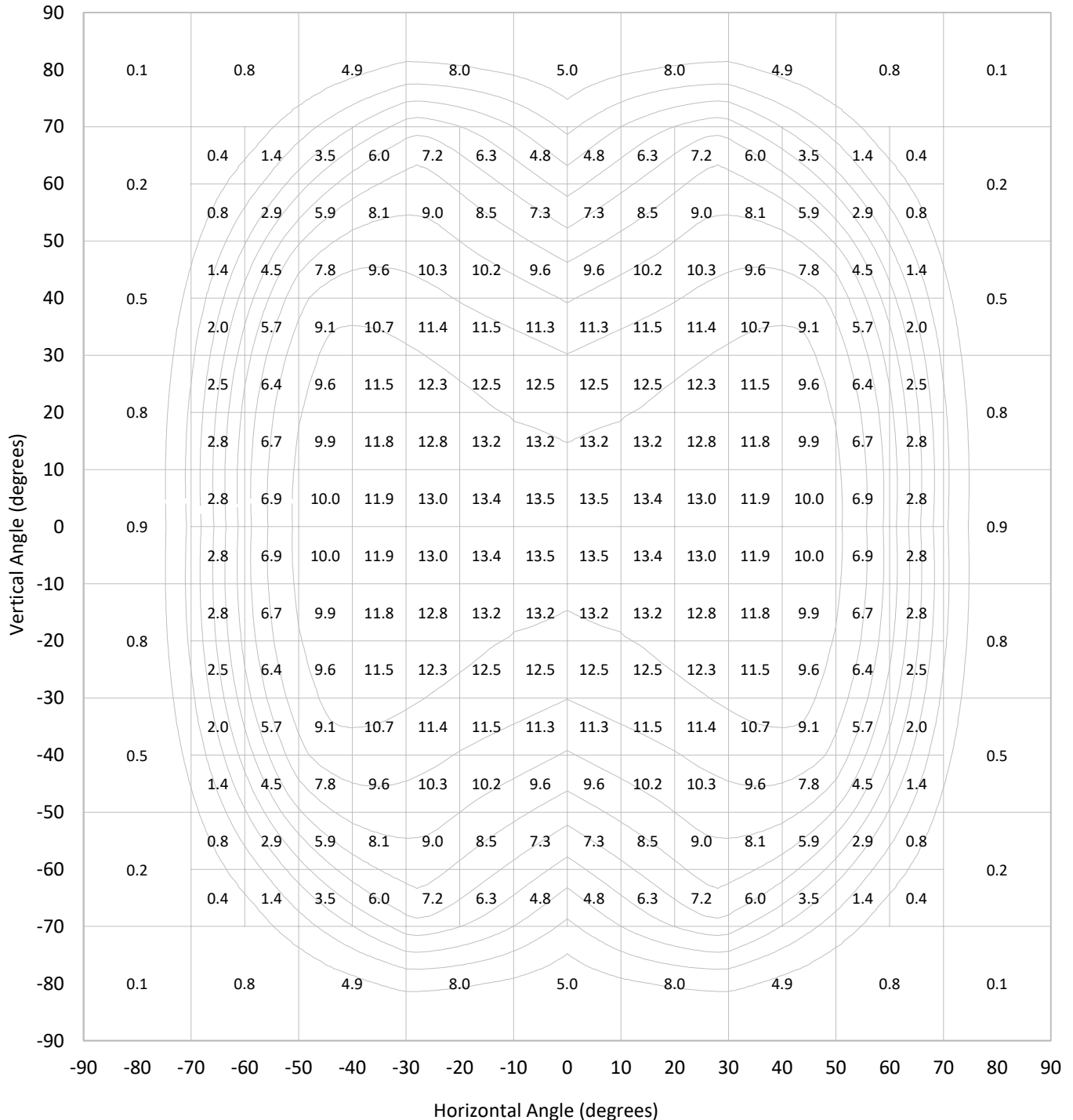
Iso-Candela Plot





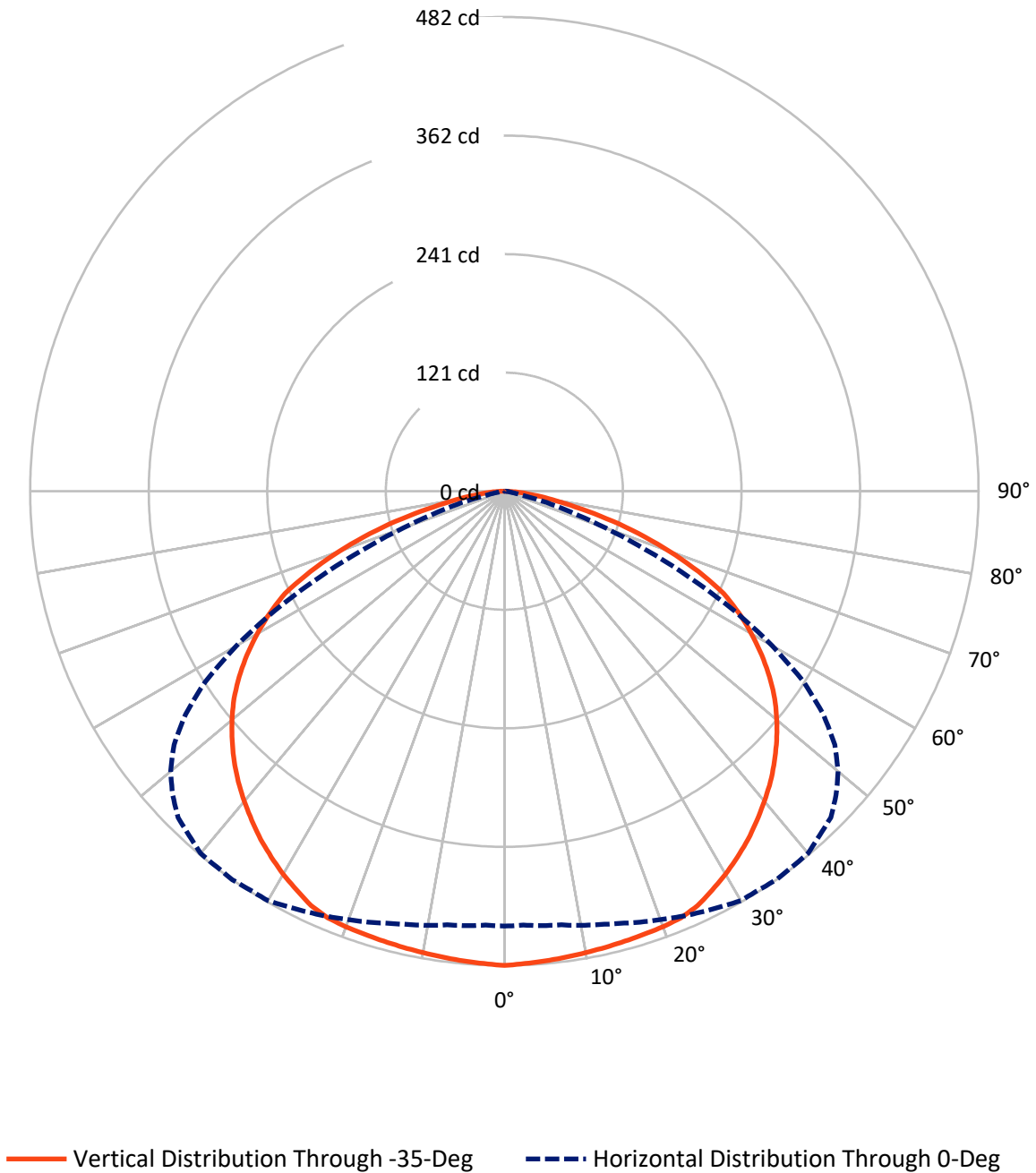
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Lumen Table



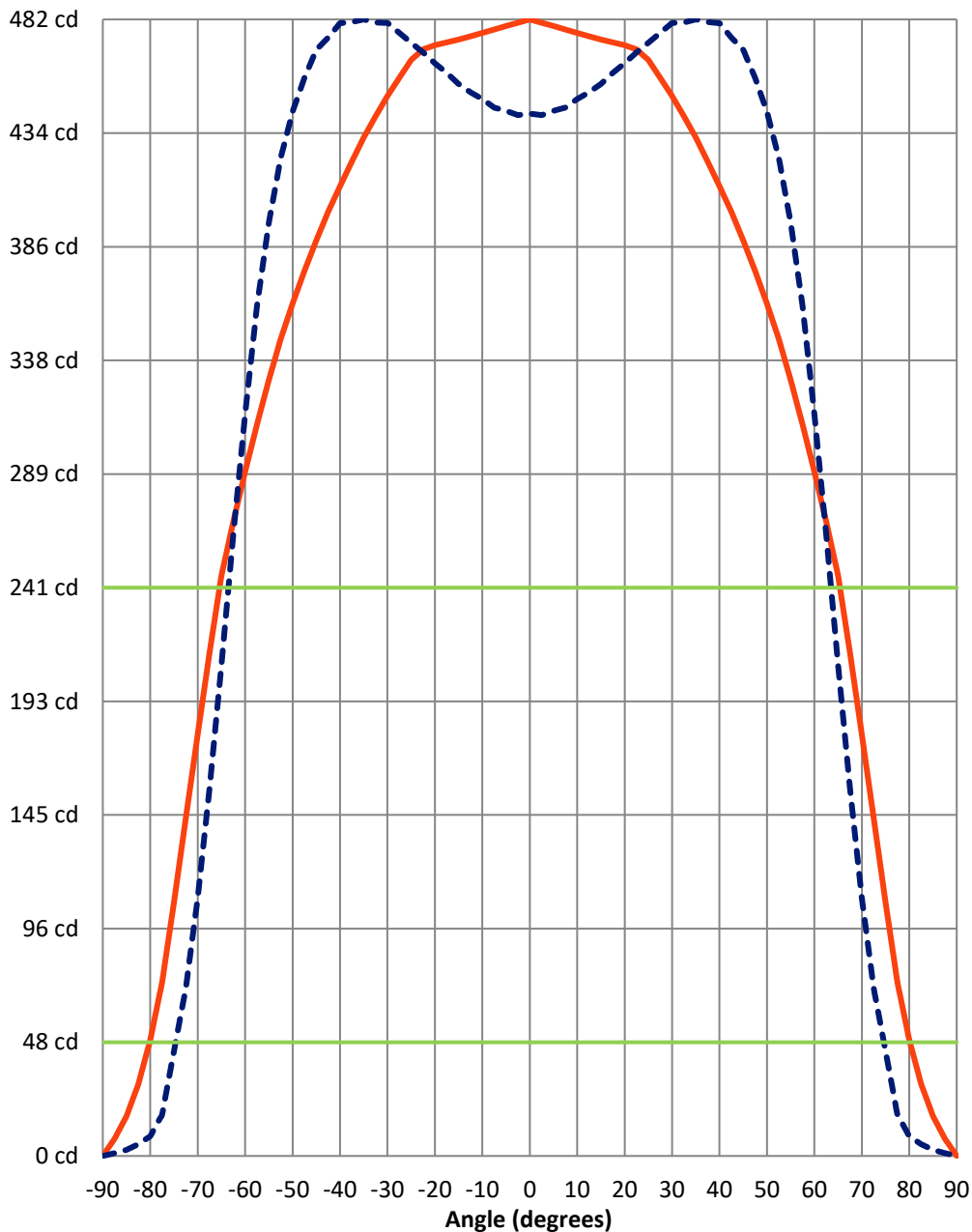
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 127°
 V Angle: 130.8°
 Lumens: 1440.2
 Efficiency: 86.8%

Field:
 H Angle: 149.3°
 V Angle: 160.3°
 Lumens: 1639.1
 Efficiency: 98.8%

Spill:
 Lumens: 20.2
 Efficiency: 1.2%

— Vertical Distribution through -35-Deg
 - - Horizontal Distribution through 0-Deg

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FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2
85°	0.0	0.1	0.3	0.6	1.0	1.4	1.9	2.4	3.0	3.7	4.4
82.5°	0.0	0.2	0.5	0.9	1.4	2.1	2.8	3.6	4.4	5.2	6.1
80°	0.0	0.3	0.7	1.2	1.9	2.7	3.6	4.5	5.5	6.5	7.5
77.5°	0.0	0.3	0.9	1.5	2.4	3.3	4.3	5.4	6.5	7.7	9.0
75°	0.0	0.4	1.0	1.8	2.8	3.8	4.9	6.2	7.5	8.9	10.5
72.5°	0.0	0.5	1.2	2.1	3.2	4.3	5.6	7.0	8.6	10.2	12.0
70°	0.0	0.5	1.3	2.4	3.5	4.8	6.2	7.9	9.6	11.5	15.5
67.5°	0.0	0.6	1.5	2.6	3.9	5.2	6.9	8.8	10.7	14.8	19.4
65°	0.0	0.7	1.6	2.8	4.2	5.7	7.6	9.6	13.4	18.0	24.3
62.5°	0.0	0.7	1.8	3.0	4.5	6.3	8.3	11.3	15.9	21.6	31.7
60°	0.0	0.8	1.9	3.2	4.8	6.8	8.9	13.3	18.3	27.8	38.8
57.5°	0.0	0.8	2.0	3.4	5.1	7.3	10.3	15.1	22.6	33.5	47.9
55°	0.0	0.9	2.1	3.6	5.5	7.7	11.7	16.8	27.3	39.8	57.8
52.5°	0.0	0.9	2.2	3.7	5.8	8.3	12.9	20.2	31.6	48.3	67.3
50°	0.0	1.0	2.3	3.9	6.1	9.2	14.1	23.6	36.6	56.5	79.6
47.5°	0.0	1.0	2.4	4.0	6.4	10.0	15.4	26.8	43.5	64.3	91.6
45°	0.0	1.0	2.5	4.2	6.7	10.8	17.9	29.7	50.0	74.1	102.7
42.5°	0.0	1.1	2.5	4.4	6.9	11.5	20.1	34.0	56.3	83.3	115.6
40°	0.0	1.1	2.6	4.6	7.3	12.1	22.1	39.1	62.6	91.7	127.9
37.5°	0.0	1.1	2.7	4.7	7.7	12.7	24.0	43.9	69.5	100.2	139.2
35°	0.0	1.2	2.7	4.9	8.1	13.7	25.5	48.3	75.8	109.5	150.2
32.5°	0.0	1.2	2.7	5.0	8.4	15.0	27.6	52.4	81.5	118.0	161.1
30°	0.0	1.2	2.8	5.1	8.7	16.0	30.8	56.3	86.5	125.6	170.9
27.5°	0.0	1.2	2.8	5.2	9.0	17.0	33.7	60.3	91.4	132.3	179.7
25°	0.0	1.2	2.8	5.2	9.1	17.7	36.3	63.7	96.8	138.9	187.3
22.5°	0.0	1.3	2.8	5.3	9.3	18.4	38.6	66.7	101.3	144.9	194.3
20°	0.0	1.3	2.8	5.3	9.4	18.8	40.5	69.1	105.2	150.0	200.3
17.5°	0.0	1.3	2.8	5.4	9.4	19.1	42.2	71.0	108.2	154.1	205.1
15°	0.0	1.3	2.8	5.4	9.4	19.3	43.5	72.5	110.5	157.2	208.9
12.5°	0.0	1.3	2.8	5.3	9.3	19.3	44.5	73.4	112.1	159.3	211.5
10°	0.0	1.3	2.8	5.3	9.2	19.2	45.2	73.9	113.0	160.5	213.1
7.5°	0.0	1.2	2.7	5.3	9.1	19.0	45.5	73.9	113.1	160.8	213.5
5°	0.0	1.2	2.7	5.2	8.9	18.6	45.5	73.4	112.5	160.1	212.9
2.5°	0.0	1.2	2.6	5.1	8.7	18.2	45.1	72.6	111.3	158.5	211.1
0°	0.0	1.2	2.6	5.0	8.4	17.6	44.5	71.3	109.5	156.1	208.3
-2.5°	0.0	1.2	2.6	5.1	8.7	18.2	45.1	72.6	111.3	158.5	211.1
-5°	0.0	1.2	2.7	5.2	8.9	18.6	45.5	73.4	112.5	160.1	212.9
-7.5°	0.0	1.2	2.7	5.3	9.1	19.0	45.5	73.9	113.1	160.8	213.5
-10°	0.0	1.3	2.8	5.3	9.2	19.2	45.2	73.9	113.0	160.5	213.1
-12.5°	0.0	1.3	2.8	5.3	9.3	19.3	44.5	73.4	112.1	159.3	211.5
-15°	0.0	1.3	2.8	5.4	9.4	19.3	43.5	72.5	110.5	157.2	208.9
-17.5°	0.0	1.3	2.8	5.4	9.4	19.1	42.2	71.0	108.2	154.1	205.1
-20°	0.0	1.3	2.8	5.3	9.4	18.8	40.5	69.1	105.2	150.0	200.3

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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	1.3	2.8	5.3	9.3	18.4	38.6	66.7	101.3	144.9	194.3
-25°	0.0	1.2	2.8	5.2	9.1	17.7	36.3	63.7	96.8	138.9	187.3
-27.5°	0.0	1.2	2.8	5.2	9.0	17.0	33.7	60.3	91.4	132.3	179.7
-30°	0.0	1.2	2.8	5.1	8.7	16.0	30.8	56.3	86.5	125.6	170.9
-32.5°	0.0	1.2	2.7	5.0	8.4	15.0	27.6	52.4	81.5	118.0	161.1
-35°	0.0	1.2	2.7	4.9	8.1	13.7	25.5	48.3	75.8	109.5	150.2
-37.5°	0.0	1.1	2.7	4.7	7.7	12.7	24.0	43.9	69.5	100.2	139.2
-40°	0.0	1.1	2.6	4.6	7.3	12.1	22.1	39.1	62.6	91.7	127.9
-42.5°	0.0	1.1	2.5	4.4	6.9	11.5	20.1	34.0	56.3	83.3	115.6
-45°	0.0	1.0	2.5	4.2	6.7	10.8	17.9	29.7	50.0	74.1	102.7
-47.5°	0.0	1.0	2.4	4.0	6.4	10.0	15.4	26.8	43.5	64.3	91.6
-50°	0.0	1.0	2.3	3.9	6.1	9.2	14.1	23.6	36.6	56.5	79.6
-52.5°	0.0	0.9	2.2	3.7	5.8	8.3	12.9	20.2	31.6	48.3	67.3
-55°	0.0	0.9	2.1	3.6	5.5	7.7	11.7	16.8	27.3	39.8	57.8
-57.5°	0.0	0.8	2.0	3.4	5.1	7.3	10.3	15.1	22.6	33.5	47.9
-60°	0.0	0.8	1.9	3.2	4.8	6.8	8.9	13.3	18.3	27.8	38.8
-62.5°	0.0	0.7	1.8	3.0	4.5	6.3	8.3	11.3	15.9	21.6	31.7
-65°	0.0	0.7	1.6	2.8	4.2	5.7	7.6	9.6	13.4	18.0	24.3
-67.5°	0.0	0.6	1.5	2.6	3.9	5.2	6.9	8.8	10.7	14.8	19.4
-70°	0.0	0.5	1.3	2.4	3.5	4.8	6.2	7.9	9.6	11.5	15.5
-72.5°	0.0	0.5	1.2	2.1	3.2	4.3	5.6	7.0	8.6	10.2	12.0
-75°	0.0	0.4	1.0	1.8	2.8	3.8	4.9	6.2	7.5	8.9	10.5
-77.5°	0.0	0.3	0.9	1.5	2.4	3.3	4.3	5.4	6.5	7.7	9.0
-80°	0.0	0.3	0.7	1.2	1.9	2.7	3.6	4.5	5.5	6.5	7.5
-82.5°	0.0	0.2	0.5	0.9	1.4	2.1	2.8	3.6	4.4	5.2	6.1
-85°	0.0	0.1	0.3	0.6	1.0	1.4	1.9	2.4	3.0	3.7	4.4
-87.5°	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	3.0	3.4	3.8	4.2	4.6	5.1	5.5	6.0	6.4	6.9
85°	5.2	6.0	6.6	7.4	8.3	9.3	10.3	11.5	12.8	14.1	15.5
82.5°	7.0	7.9	9.1	10.6	12.2	13.9	15.9	18.4	21.1	24.1	27.2
80°	8.6	9.8	11.7	14.1	16.9	20.2	23.8	27.8	32.1	37.3	43.2
77.5°	10.3	11.8	14.4	17.9	22.1	28.1	34.6	41.4	48.7	56.3	64.3
75°	12.1	13.7	18.5	24.8	31.8	39.3	47.8	59.0	70.6	82.6	94.9
72.5°	15.1	19.1	24.9	32.5	43.6	55.7	68.6	82.0	96.6	112.0	127.6
70°	19.8	24.6	33.6	46.0	59.3	74.0	90.3	107.2	124.6	142.6	161.0
67.5°	25.1	34.4	44.9	59.5	76.6	94.4	112.9	134.1	154.8	175.0	194.7
65°	34.0	44.5	57.3	75.3	94.2	117.4	140.5	163.2	186.0	207.8	228.4
62.5°	42.6	56.8	71.5	92.3	117.9	143.1	169.0	194.2	218.1	237.8	254.7
60°	53.6	69.5	89.0	114.4	142.2	171.2	198.8	223.7	245.2	263.9	278.5
57.5°	64.9	85.1	109.6	137.4	169.2	199.4	227.1	251.6	271.7	288.3	301.4
55°	77.6	102.9	130.9	162.7	196.2	227.6	255.2	278.2	297.7	311.4	322.3
52.5°	92.7	120.6	153.6	188.3	224.0	255.5	282.4	304.2	320.7	333.3	341.2
50°	107.0	140.2	175.6	214.0	251.5	282.9	308.1	328.2	342.3	352.4	358.6
47.5°	122.9	158.7	198.0	238.2	277.3	308.4	332.6	349.4	362.3	369.7	374.7
45°	138.6	177.6	219.3	260.4	299.7	332.7	353.6	369.8	379.3	385.9	388.2
42.5°	153.3	195.8	238.8	281.4	319.2	352.4	373.8	386.6	395.4	399.5	401.1
40°	168.6	212.9	257.1	298.8	336.8	367.5	390.8	403.0	409.1	412.3	413.4
37.5°	183.0	228.6	273.8	315.4	350.5	380.3	404.7	416.5	422.0	424.6	423.9
35°	196.2	243.2	288.3	329.3	363.9	391.4	412.8	429.0	434.0	435.1	434.3
32.5°	208.3	256.6	301.8	341.0	374.2	401.2	420.7	435.2	444.7	445.4	444.2
30°	219.4	268.0	313.7	352.2	383.9	408.4	426.9	440.9	450.5	454.9	453.2
27.5°	229.5	278.5	323.1	361.2	392.7	415.5	432.7	445.2	454.2	460.6	461.6
25°	238.4	288.0	331.8	369.1	398.7	421.0	437.8	449.4	457.6	463.2	466.3
22.5°	246.0	296.4	339.7	376.5	404.5	425.8	441.4	452.6	460.7	465.9	468.1
20°	252.4	302.4	346.0	382.9	410.0	430.5	445.1	455.7	463.2	467.6	470.0
17.5°	257.8	307.5	351.0	386.9	413.8	434.1	448.3	458.6	465.8	469.3	472.0
15°	262.1	311.8	355.2	390.3	416.9	436.6	450.6	460.8	467.8	471.0	474.1
12.5°	265.3	315.0	358.6	393.3	419.6	438.9	452.7	462.9	469.2	472.9	475.3
10°	267.4	317.2	361.2	395.5	421.8	440.7	454.4	464.7	470.6	474.7	476.4
7.5°	268.2	318.4	362.7	397.0	423.4	442.2	455.8	466.4	471.9	476.5	477.6
5°	267.9	318.4	363.3	397.6	424.2	443.1	456.9	467.8	473.0	478.1	478.8
2.5°	266.4	317.2	362.7	397.4	424.3	443.4	457.5	468.9	473.9	479.6	480.0
0°	263.6	314.8	360.8	396.1	423.6	443.2	457.6	469.5	474.7	480.8	481.3
-2.5°	266.4	317.2	362.7	397.4	424.3	443.4	457.5	468.9	473.9	479.6	480.0
-5°	267.9	318.4	363.3	397.6	424.2	443.1	456.9	467.8	473.0	478.1	478.8
-7.5°	268.2	318.4	362.7	397.0	423.4	442.2	455.8	466.4	471.9	476.5	477.6
-10°	267.4	317.2	361.2	395.5	421.8	440.7	454.4	464.7	470.6	474.7	476.4
-12.5°	265.3	315.0	358.6	393.3	419.6	438.9	452.7	462.9	469.2	472.9	475.3
-15°	262.1	311.8	355.2	390.3	416.9	436.6	450.6	460.8	467.8	471.0	474.1
-17.5°	257.8	307.5	351.0	386.9	413.8	434.1	448.3	458.6	465.8	469.3	472.0
-20°	252.4	302.4	346.0	382.9	410.0	430.5	445.1	455.7	463.2	467.6	470.0

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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	246.0	296.4	339.7	376.5	404.5	425.8	441.4	452.6	460.7	465.9	468.1
-25°	238.4	288.0	331.8	369.1	398.7	421.0	437.8	449.4	457.6	463.2	466.3
-27.5°	229.5	278.5	323.1	361.2	392.7	415.5	432.7	445.2	454.2	460.6	461.6
-30°	219.4	268.0	313.7	352.2	383.9	408.4	426.9	440.9	450.5	454.9	453.2
-32.5°	208.3	256.6	301.8	341.0	374.2	401.2	420.7	435.2	444.7	445.4	444.2
-35°	196.2	243.2	288.3	329.3	363.9	391.4	412.8	429.0	434.0	435.1	434.3
-37.5°	183.0	228.6	273.8	315.4	350.5	380.3	404.7	416.5	422.0	424.6	423.9
-40°	168.6	212.9	257.1	298.8	336.8	367.5	390.8	403.0	409.1	412.3	413.4
-42.5°	153.3	195.8	238.8	281.4	319.2	352.4	373.8	386.6	395.4	399.5	401.1
-45°	138.6	177.6	219.3	260.4	299.7	332.7	353.6	369.8	379.3	385.9	388.2
-47.5°	122.9	158.7	198.0	238.2	277.3	308.4	332.6	349.4	362.3	369.7	374.7
-50°	107.0	140.2	175.6	214.0	251.5	282.9	308.1	328.2	342.3	352.4	358.6
-52.5°	92.7	120.6	153.6	188.3	224.0	255.5	282.4	304.2	320.7	333.3	341.2
-55°	77.6	102.9	130.9	162.7	196.2	227.6	255.2	278.2	297.7	311.4	322.3
-57.5°	64.9	85.1	109.6	137.4	169.2	199.4	227.1	251.6	271.7	288.3	301.4
-60°	53.6	69.5	89.0	114.4	142.2	171.2	198.8	223.7	245.2	263.9	278.5
-62.5°	42.6	56.8	71.5	92.3	117.9	143.1	169.0	194.2	218.1	237.8	254.7
-65°	34.0	44.5	57.3	75.3	94.2	117.4	140.5	163.2	186.0	207.8	228.4
-67.5°	25.1	34.4	44.9	59.5	76.6	94.4	112.9	134.1	154.8	175.0	194.7
-70°	19.8	24.6	33.6	46.0	59.3	74.0	90.3	107.2	124.6	142.6	161.0
-72.5°	15.1	19.1	24.9	32.5	43.6	55.7	68.6	82.0	96.6	112.0	127.6
-75°	12.1	13.7	18.5	24.8	31.8	39.3	47.8	59.0	70.6	82.6	94.9
-77.5°	10.3	11.8	14.4	17.9	22.1	28.1	34.6	41.4	48.7	56.3	64.3
-80°	8.6	9.8	11.7	14.1	16.9	20.2	23.8	27.8	32.1	37.3	43.2
-82.5°	7.0	7.9	9.1	10.6	12.2	13.9	15.9	18.4	21.1	24.1	27.2
-85°	5.2	6.0	6.6	7.4	8.3	9.3	10.3	11.5	12.8	14.1	15.5
-87.5°	2.6	3.0	3.4	3.8	4.2	4.6	5.1	5.5	6.0	6.4	6.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	7.8	8.3	8.2	8.0	7.7	7.4	7.2	6.9	6.5	6.2
85°	16.9	18.4	20.0	19.5	18.9	18.2	17.3	16.5	15.5	14.4	13.3
82.5°	30.6	34.0	37.7	37.2	36.0	34.6	32.8	30.9	28.7	26.3	23.8
80°	49.3	55.6	62.0	61.8	60.0	57.5	54.6	51.3	47.6	43.6	39.1
77.5°	73.7	83.9	94.2	95.5	93.2	90.0	85.8	80.9	75.3	69.0	62.2
75°	107.6	120.7	134.1	136.9	133.1	128.2	122.1	115.1	107.2	98.6	89.1
72.5°	143.5	159.4	175.4	179.8	173.9	166.8	158.5	149.2	139.0	127.9	116.1
70°	178.9	196.2	213.0	220.2	212.6	203.8	193.8	182.9	171.0	158.3	144.7
67.5°	213.6	231.4	248.2	258.7	247.9	235.6	222.9	209.8	196.3	182.5	168.2
65°	246.3	260.0	271.8	280.7	269.1	256.5	243.6	230.4	217.0	203.2	189.1
62.5°	269.2	280.6	289.4	296.2	287.0	274.7	262.1	249.2	236.2	222.9	209.3
60°	290.4	299.7	305.7	309.5	303.2	291.4	279.3	267.1	254.6	242.0	229.1
57.5°	310.5	317.1	321.1	322.6	318.4	307.2	295.6	283.9	272.1	260.2	248.1
55°	329.4	333.4	335.6	335.1	332.0	321.2	310.4	299.5	288.7	277.7	266.5
52.5°	346.7	348.6	348.6	346.8	343.4	334.2	324.3	314.4	304.5	294.5	284.3
50°	361.8	362.5	360.9	358.0	354.0	346.8	337.8	328.7	319.5	310.3	301.0
47.5°	375.7	375.1	372.7	369.2	364.7	358.3	349.8	341.6	333.7	325.7	317.5
45°	388.6	387.0	384.2	379.7	374.5	369.0	362.0	355.0	347.6	340.2	332.7
42.5°	400.8	398.2	394.6	390.2	385.4	379.7	372.9	366.2	359.9	353.5	347.0
40°	411.6	408.8	405.1	400.7	395.0	389.0	383.1	377.5	372.0	366.3	360.5
37.5°	422.1	419.2	415.0	409.8	404.4	399.0	393.3	388.2	383.3	378.1	372.9
35°	432.3	428.5	423.9	419.0	413.9	408.6	403.2	397.8	393.3	388.9	384.3
32.5°	441.3	437.3	432.6	427.8	423.0	417.6	412.1	406.6	402.6	398.7	394.7
30°	449.9	445.4	440.9	436.3	431.0	425.8	420.7	415.3	410.8	407.4	404.0
27.5°	457.6	453.3	449.0	443.7	438.7	433.8	428.5	423.5	418.5	415.7	412.6
25°	465.2	461.1	455.9	451.0	446.2	440.9	435.8	431.1	426.1	422.3	419.7
22.5°	469.7	467.8	462.8	458.1	452.7	447.4	442.4	437.6	432.7	427.9	425.8
20°	471.5	470.9	469.6	464.2	458.6	453.2	448.5	443.1	438.3	434.6	431.9
17.5°	472.7	472.4	471.7	470.0	464.0	459.0	453.2	447.8	444.2	439.9	435.7
15°	473.9	473.9	472.6	470.5	468.4	463.8	457.0	453.1	448.2	444.0	441.1
12.5°	475.2	475.2	473.5	471.5	469.4	465.0	461.9	456.8	451.7	448.3	444.7
10°	476.7	476.1	474.5	472.5	469.4	465.2	462.8	458.9	455.2	451.0	447.4
7.5°	478.1	477.3	475.9	473.4	469.5	465.9	462.5	458.9	456.2	453.2	449.5
5°	479.6	478.5	477.4	474.4	470.0	466.6	462.5	459.0	455.5	452.5	449.9
2.5°	481.0	479.7	479.1	475.4	471.1	467.4	462.9	459.2	455.0	451.8	448.9
0°	482.4	481.1	480.9	476.7	472.5	468.4	463.8	459.7	455.0	451.5	448.6
-2.5°	481.0	479.7	479.1	475.4	471.1	467.4	462.9	459.2	455.0	451.8	448.9
-5°	479.6	478.5	477.4	474.4	470.0	466.6	462.5	459.0	455.5	452.5	449.9
-7.5°	478.1	477.3	475.9	473.4	469.5	465.9	462.5	458.9	456.2	453.2	449.5
-10°	476.7	476.1	474.5	472.5	469.4	465.2	462.8	458.9	455.2	451.0	447.4
-12.5°	475.2	475.2	473.5	471.5	469.4	465.0	461.9	456.8	451.7	448.3	444.7
-15°	473.9	473.9	472.6	470.5	468.4	463.8	457.0	453.1	448.2	444.0	441.1
-17.5°	472.7	472.4	471.7	470.0	464.0	459.0	453.2	447.8	444.2	439.9	435.7
-20°	471.5	470.9	469.6	464.2	458.6	453.2	448.5	443.1	438.3	434.6	431.9



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	469.7	467.8	462.8	458.1	452.7	447.4	442.4	437.6	432.7	427.9	425.8
-25°	465.2	461.1	455.9	451.0	446.2	440.9	435.8	431.1	426.1	422.3	419.7
-27.5°	457.6	453.3	449.0	443.7	438.7	433.8	428.5	423.5	418.5	415.7	412.6
-30°	449.9	445.4	440.9	436.3	431.0	425.8	420.7	415.3	410.8	407.4	404.0
-32.5°	441.3	437.3	432.6	427.8	423.0	417.6	412.1	406.6	402.6	398.7	394.7
-35°	432.3	428.5	423.9	419.0	413.9	408.6	403.2	397.8	393.3	388.9	384.3
-37.5°	422.1	419.2	415.0	409.8	404.4	399.0	393.3	388.2	383.3	378.1	372.9
-40°	411.6	408.8	405.1	400.7	395.0	389.0	383.1	377.5	372.0	366.3	360.5
-42.5°	400.8	398.2	394.6	390.2	385.4	379.7	372.9	366.2	359.9	353.5	347.0
-45°	388.6	387.0	384.2	379.7	374.5	369.0	362.0	355.0	347.6	340.2	332.7
-47.5°	375.7	375.1	372.7	369.2	364.7	358.3	349.8	341.6	333.7	325.7	317.5
-50°	361.8	362.5	360.9	358.0	354.0	346.8	337.8	328.7	319.5	310.3	301.0
-52.5°	346.7	348.6	348.6	346.8	343.4	334.2	324.3	314.4	304.5	294.5	284.3
-55°	329.4	333.4	335.6	335.1	332.0	321.2	310.4	299.5	288.7	277.7	266.5
-57.5°	310.5	317.1	321.1	322.6	318.4	307.2	295.6	283.9	272.1	260.2	248.1
-60°	290.4	299.7	305.7	309.5	303.2	291.4	279.3	267.1	254.6	242.0	229.1
-62.5°	269.2	280.6	289.4	296.2	287.0	274.7	262.1	249.2	236.2	222.9	209.3
-65°	246.3	260.0	271.8	280.7	269.1	256.5	243.6	230.4	217.0	203.2	189.1
-67.5°	213.6	231.4	248.2	258.7	247.9	235.6	222.9	209.8	196.3	182.5	168.2
-70°	178.9	196.2	213.0	220.2	212.6	203.8	193.8	182.9	171.0	158.3	144.7
-72.5°	143.5	159.4	175.4	179.8	173.9	166.8	158.5	149.2	139.0	127.9	116.1
-75°	107.6	120.7	134.1	136.9	133.1	128.2	122.1	115.1	107.2	98.6	89.1
-77.5°	73.7	83.9	94.2	95.5	93.2	90.0	85.8	80.9	75.3	69.0	62.2
-80°	49.3	55.6	62.0	61.8	60.0	57.5	54.6	51.3	47.6	43.6	39.1
-82.5°	30.6	34.0	37.7	37.2	36.0	34.6	32.8	30.9	28.7	26.3	23.8
-85°	16.9	18.4	20.0	19.5	18.9	18.2	17.3	16.5	15.5	14.4	13.3
-87.5°	7.4	7.8	8.3	8.2	8.0	7.7	7.4	7.2	6.9	6.5	6.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	5.5	5.0	4.6	5.0	5.5	5.9	6.2	6.5	6.9	7.2
85°	12.1	10.9	9.6	8.3	9.6	10.9	12.1	13.3	14.4	15.5	16.5
82.5°	21.1	18.4	15.5	12.6	15.5	18.4	21.1	23.8	26.3	28.7	30.9
80°	34.6	29.7	24.7	19.6	24.7	29.7	34.6	39.1	43.6	47.6	51.3
77.5°	55.0	47.3	39.3	31.2	39.3	47.3	55.0	62.2	69.0	75.3	80.9
75°	79.1	68.6	57.7	46.5	57.7	68.6	79.1	89.1	98.6	107.2	115.1
72.5°	103.6	90.5	77.0	63.2	77.0	90.5	103.6	116.1	127.9	139.0	149.2
70°	130.5	115.6	100.2	84.4	100.2	115.6	130.5	144.7	158.3	171.0	182.9
67.5°	153.6	138.5	123.1	107.2	123.1	138.5	153.6	168.2	182.5	196.3	209.8
65°	174.6	159.7	144.5	128.8	144.5	159.7	174.6	189.1	203.2	217.0	230.4
62.5°	195.3	181.0	166.2	151.0	166.2	181.0	195.3	209.3	222.9	236.2	249.2
60°	215.8	202.1	187.9	173.3	187.9	202.1	215.8	229.1	242.0	254.6	267.1
57.5°	235.7	222.9	209.7	195.9	209.7	222.9	235.7	248.1	260.2	272.1	283.9
55°	255.0	243.2	230.9	218.0	230.9	243.2	255.0	266.5	277.7	288.7	299.5
52.5°	273.8	262.8	251.4	239.3	251.4	262.8	273.8	284.3	294.5	304.5	314.4
50°	291.4	281.5	271.0	260.0	271.0	281.5	291.4	301.0	310.3	319.5	328.7
47.5°	308.9	299.9	290.3	280.0	290.3	299.9	308.9	317.5	325.7	333.7	341.6
45°	325.0	317.0	308.4	299.2	308.4	317.0	325.0	332.7	340.2	347.6	355.0
42.5°	340.1	332.8	324.9	316.4	324.9	332.8	340.1	347.0	353.5	359.9	366.2
40°	354.3	347.8	340.6	332.8	340.6	347.8	354.3	360.5	366.3	372.0	377.5
37.5°	367.4	361.5	355.1	348.0	355.1	361.5	367.4	372.9	378.1	383.3	388.2
35°	379.5	374.4	368.8	362.4	368.8	374.4	379.5	384.3	388.9	393.3	397.8
32.5°	390.3	385.7	380.4	374.6	380.4	385.7	390.3	394.7	398.7	402.6	406.6
30°	400.5	396.6	392.3	387.1	392.3	396.6	400.5	404.0	407.4	410.8	415.3
27.5°	409.6	406.3	402.6	398.3	402.6	406.3	409.6	412.6	415.7	418.5	423.5
25°	416.9	413.8	410.3	406.2	410.3	413.8	416.9	419.7	422.3	426.1	431.1
22.5°	423.8	421.6	418.9	415.4	418.9	421.6	423.8	425.8	427.9	432.7	437.6
20°	429.9	428.2	426.5	424.2	426.5	428.2	429.9	431.9	434.6	438.3	443.1
17.5°	434.7	433.4	431.5	429.0	431.5	433.4	434.7	435.7	439.9	444.2	447.8
15°	438.7	437.2	435.5	433.5	435.5	437.2	438.7	441.1	444.0	448.2	453.1
12.5°	441.6	440.6	439.8	438.5	439.8	440.6	441.6	444.7	448.3	451.7	456.8
10°	444.9	442.4	440.9	439.3	440.9	442.4	444.9	447.4	451.0	455.2	458.9
7.5°	446.0	443.6	443.1	443.1	443.1	443.6	446.0	449.5	453.2	456.2	458.9
5°	447.3	445.1	444.3	443.3	444.3	445.1	447.3	449.9	452.5	455.5	459.0
2.5°	446.4	444.6	443.6	444.2	443.6	444.6	446.4	448.9	451.8	455.0	459.2
0°	445.0	443.6	441.8	442.4	441.8	443.6	445.0	448.6	451.5	455.0	459.7
-2.5°	446.4	444.6	443.6	444.2	443.6	444.6	446.4	448.9	451.8	455.0	459.2
-5°	447.3	445.1	444.3	443.3	444.3	445.1	447.3	449.9	452.5	455.5	459.0
-7.5°	446.0	443.6	443.1	443.1	443.1	443.6	446.0	449.5	453.2	456.2	458.9
-10°	444.9	442.4	440.9	439.3	440.9	442.4	444.9	447.4	451.0	455.2	458.9
-12.5°	441.6	440.6	439.8	438.5	439.8	440.6	441.6	444.7	448.3	451.7	456.8
-15°	438.7	437.2	435.5	433.5	435.5	437.2	438.7	441.1	444.0	448.2	453.1
-17.5°	434.7	433.4	431.5	429.0	431.5	433.4	434.7	435.7	439.9	444.2	447.8
-20°	429.9	428.2	426.5	424.2	426.5	428.2	429.9	431.9	434.6	438.3	443.1



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	423.8	421.6	418.9	415.4	418.9	421.6	423.8	425.8	427.9	432.7	437.6
-25°	416.9	413.8	410.3	406.2	410.3	413.8	416.9	419.7	422.3	426.1	431.1
-27.5°	409.6	406.3	402.6	398.3	402.6	406.3	409.6	412.6	415.7	418.5	423.5
-30°	400.5	396.6	392.3	387.1	392.3	396.6	400.5	404.0	407.4	410.8	415.3
-32.5°	390.3	385.7	380.4	374.6	380.4	385.7	390.3	394.7	398.7	402.6	406.6
-35°	379.5	374.4	368.8	362.4	368.8	374.4	379.5	384.3	388.9	393.3	397.8
-37.5°	367.4	361.5	355.1	348.0	355.1	361.5	367.4	372.9	378.1	383.3	388.2
-40°	354.3	347.8	340.6	332.8	340.6	347.8	354.3	360.5	366.3	372.0	377.5
-42.5°	340.1	332.8	324.9	316.4	324.9	332.8	340.1	347.0	353.5	359.9	366.2
-45°	325.0	317.0	308.4	299.2	308.4	317.0	325.0	332.7	340.2	347.6	355.0
-47.5°	308.9	299.9	290.3	280.0	290.3	299.9	308.9	317.5	325.7	333.7	341.6
-50°	291.4	281.5	271.0	260.0	271.0	281.5	291.4	301.0	310.3	319.5	328.7
-52.5°	273.8	262.8	251.4	239.3	251.4	262.8	273.8	284.3	294.5	304.5	314.4
-55°	255.0	243.2	230.9	218.0	230.9	243.2	255.0	266.5	277.7	288.7	299.5
-57.5°	235.7	222.9	209.7	195.9	209.7	222.9	235.7	248.1	260.2	272.1	283.9
-60°	215.8	202.1	187.9	173.3	187.9	202.1	215.8	229.1	242.0	254.6	267.1
-62.5°	195.3	181.0	166.2	151.0	166.2	181.0	195.3	209.3	222.9	236.2	249.2
-65°	174.6	159.7	144.5	128.8	144.5	159.7	174.6	189.1	203.2	217.0	230.4
-67.5°	153.6	138.5	123.1	107.2	123.1	138.5	153.6	168.2	182.5	196.3	209.8
-70°	130.5	115.6	100.2	84.4	100.2	115.6	130.5	144.7	158.3	171.0	182.9
-72.5°	103.6	90.5	77.0	63.2	77.0	90.5	103.6	116.1	127.9	139.0	149.2
-75°	79.1	68.6	57.7	46.5	57.7	68.6	79.1	89.1	98.6	107.2	115.1
-77.5°	55.0	47.3	39.3	31.2	39.3	47.3	55.0	62.2	69.0	75.3	80.9
-80°	34.6	29.7	24.7	19.6	24.7	29.7	34.6	39.1	43.6	47.6	51.3
-82.5°	21.1	18.4	15.5	12.6	15.5	18.4	21.1	23.8	26.3	28.7	30.9
-85°	12.1	10.9	9.6	8.3	9.6	10.9	12.1	13.3	14.4	15.5	16.5
-87.5°	5.9	5.5	5.0	4.6	5.0	5.5	5.9	6.2	6.5	6.9	7.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	7.7	8.0	8.2	8.3	7.8	7.4	6.9	6.4	6.0	5.5
85°	17.3	18.2	18.9	19.5	20.0	18.4	16.9	15.5	14.1	12.8	11.5
82.5°	32.8	34.6	36.0	37.2	37.7	34.0	30.6	27.2	24.1	21.1	18.4
80°	54.6	57.5	60.0	61.8	62.0	55.6	49.3	43.2	37.3	32.1	27.8
77.5°	85.8	90.0	93.2	95.5	94.2	83.9	73.7	64.3	56.3	48.7	41.4
75°	122.1	128.2	133.1	136.9	134.1	120.7	107.6	94.9	82.6	70.6	59.0
72.5°	158.5	166.8	173.9	179.8	175.4	159.4	143.5	127.6	112.0	96.6	82.0
70°	193.8	203.8	212.6	220.2	213.0	196.2	178.9	161.0	142.6	124.6	107.2
67.5°	222.9	235.6	247.9	258.7	248.2	231.4	213.6	194.7	175.0	154.8	134.1
65°	243.6	256.5	269.1	280.7	271.8	260.0	246.3	228.4	207.8	186.0	163.2
62.5°	262.1	274.7	287.0	296.2	289.4	280.6	269.2	254.7	237.8	218.1	194.2
60°	279.3	291.4	303.2	309.5	305.7	299.7	290.4	278.5	263.9	245.2	223.7
57.5°	295.6	307.2	318.4	322.6	321.1	317.1	310.5	301.4	288.3	271.7	251.6
55°	310.4	321.2	332.0	335.1	335.6	333.4	329.4	322.3	311.4	297.7	278.2
52.5°	324.3	334.2	343.4	346.8	348.6	348.6	346.7	341.2	333.3	320.7	304.2
50°	337.8	346.8	354.0	358.0	360.9	362.5	361.8	358.6	352.4	342.3	328.2
47.5°	349.8	358.3	364.7	369.2	372.7	375.1	375.7	374.7	369.7	362.3	349.4
45°	362.0	369.0	374.5	379.7	384.2	387.0	388.6	388.2	385.9	379.3	369.8
42.5°	372.9	379.7	385.4	390.2	394.6	398.2	400.8	401.1	399.5	395.4	386.6
40°	383.1	389.0	395.0	400.7	405.1	408.8	411.6	413.4	412.3	409.1	403.0
37.5°	393.3	399.0	404.4	409.8	415.0	419.2	422.1	423.9	424.6	422.0	416.5
35°	403.2	408.6	413.9	419.0	423.9	428.5	432.3	434.3	435.1	434.0	429.0
32.5°	412.1	417.6	423.0	427.8	432.6	437.3	441.3	444.2	445.4	444.7	435.2
30°	420.7	425.8	431.0	436.3	440.9	445.4	449.9	453.2	454.9	450.5	440.9
27.5°	428.5	433.8	438.7	443.7	449.0	453.3	457.6	461.6	460.6	454.2	445.2
25°	435.8	440.9	446.2	451.0	455.9	461.1	465.2	466.3	463.2	457.6	449.4
22.5°	442.4	447.4	452.7	458.1	462.8	467.8	469.7	468.1	465.9	460.7	452.6
20°	448.5	453.2	458.6	464.2	469.6	470.9	471.5	470.0	467.6	463.2	455.7
17.5°	453.2	459.0	464.0	470.0	471.7	472.4	472.7	472.0	469.3	465.8	458.6
15°	457.0	463.8	468.4	470.5	472.6	473.9	473.9	474.1	471.0	467.8	460.8
12.5°	461.9	465.0	469.4	471.5	473.5	475.2	475.2	475.3	472.9	469.2	462.9
10°	462.8	465.2	469.4	472.5	474.5	476.1	476.7	476.4	474.7	470.6	464.7
7.5°	462.5	465.9	469.5	473.4	475.9	477.3	478.1	477.6	476.5	471.9	466.4
5°	462.5	466.6	470.0	474.4	477.4	478.5	479.6	478.8	478.1	473.0	467.8
2.5°	462.9	467.4	471.1	475.4	479.1	479.7	481.0	480.0	479.6	473.9	468.9
0°	463.8	468.4	472.5	476.7	480.9	481.1	482.4	481.3	480.8	474.7	469.5
-2.5°	462.9	467.4	471.1	475.4	479.1	479.7	481.0	480.0	479.6	473.9	468.9
-5°	462.5	466.6	470.0	474.4	477.4	478.5	479.6	478.8	478.1	473.0	467.8
-7.5°	462.5	465.9	469.5	473.4	475.9	477.3	478.1	477.6	476.5	471.9	466.4
-10°	462.8	465.2	469.4	472.5	474.5	476.1	476.7	476.4	474.7	470.6	464.7
-12.5°	461.9	465.0	469.4	471.5	473.5	475.2	475.2	475.3	472.9	469.2	462.9
-15°	457.0	463.8	468.4	470.5	472.6	473.9	473.9	474.1	471.0	467.8	460.8
-17.5°	453.2	459.0	464.0	470.0	471.7	472.4	472.7	472.0	469.3	465.8	458.6
-20°	448.5	453.2	458.6	464.2	469.6	470.9	471.5	470.0	467.6	463.2	455.7

Classified

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	442.4	447.4	452.7	458.1	462.8	467.8	469.7	468.1	465.9	460.7	452.6
-25°	435.8	440.9	446.2	451.0	455.9	461.1	465.2	466.3	463.2	457.6	449.4
-27.5°	428.5	433.8	438.7	443.7	449.0	453.3	457.6	461.6	460.6	454.2	445.2
-30°	420.7	425.8	431.0	436.3	440.9	445.4	449.9	453.2	454.9	450.5	440.9
-32.5°	412.1	417.6	423.0	427.8	432.6	437.3	441.3	444.2	445.4	444.7	435.2
-35°	403.2	408.6	413.9	419.0	423.9	428.5	432.3	434.3	435.1	434.0	429.0
-37.5°	393.3	399.0	404.4	409.8	415.0	419.2	422.1	423.9	424.6	422.0	416.5
-40°	383.1	389.0	395.0	400.7	405.1	408.8	411.6	413.4	412.3	409.1	403.0
-42.5°	372.9	379.7	385.4	390.2	394.6	398.2	400.8	401.1	399.5	395.4	386.6
-45°	362.0	369.0	374.5	379.7	384.2	387.0	388.6	388.2	385.9	379.3	369.8
-47.5°	349.8	358.3	364.7	369.2	372.7	375.1	375.7	374.7	369.7	362.3	349.4
-50°	337.8	346.8	354.0	358.0	360.9	362.5	361.8	358.6	352.4	342.3	328.2
-52.5°	324.3	334.2	343.4	346.8	348.6	348.6	346.7	341.2	333.3	320.7	304.2
-55°	310.4	321.2	332.0	335.1	335.6	333.4	329.4	322.3	311.4	297.7	278.2
-57.5°	295.6	307.2	318.4	322.6	321.1	317.1	310.5	301.4	288.3	271.7	251.6
-60°	279.3	291.4	303.2	309.5	305.7	299.7	290.4	278.5	263.9	245.2	223.7
-62.5°	262.1	274.7	287.0	296.2	289.4	280.6	269.2	254.7	237.8	218.1	194.2
-65°	243.6	256.5	269.1	280.7	271.8	260.0	246.3	228.4	207.8	186.0	163.2
-67.5°	222.9	235.6	247.9	258.7	248.2	231.4	213.6	194.7	175.0	154.8	134.1
-70°	193.8	203.8	212.6	220.2	213.0	196.2	178.9	161.0	142.6	124.6	107.2
-72.5°	158.5	166.8	173.9	179.8	175.4	159.4	143.5	127.6	112.0	96.6	82.0
-75°	122.1	128.2	133.1	136.9	134.1	120.7	107.6	94.9	82.6	70.6	59.0
-77.5°	85.8	90.0	93.2	95.5	94.2	83.9	73.7	64.3	56.3	48.7	41.4
-80°	54.6	57.5	60.0	61.8	62.0	55.6	49.3	43.2	37.3	32.1	27.8
-82.5°	32.8	34.6	36.0	37.2	37.7	34.0	30.6	27.2	24.1	21.1	18.4
-85°	17.3	18.2	18.9	19.5	20.0	18.4	16.9	15.5	14.1	12.8	11.5
-87.5°	7.4	7.7	8.0	8.2	8.3	7.8	7.4	6.9	6.4	6.0	5.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	1.5	1.2
85°	10.3	9.3	8.3	7.4	6.6	6.0	5.2	4.4	3.7	3.0	2.4
82.5°	15.9	13.9	12.2	10.6	9.1	7.9	7.0	6.1	5.2	4.4	3.6
80°	23.8	20.2	16.9	14.1	11.7	9.8	8.6	7.5	6.5	5.5	4.5
77.5°	34.6	28.1	22.1	17.9	14.4	11.8	10.3	9.0	7.7	6.5	5.4
75°	47.8	39.3	31.8	24.8	18.5	13.7	12.1	10.5	8.9	7.5	6.2
72.5°	68.6	55.7	43.6	32.5	24.9	19.1	15.1	12.0	10.2	8.6	7.0
70°	90.3	74.0	59.3	46.0	33.6	24.6	19.8	15.5	11.5	9.6	7.9
67.5°	112.9	94.4	76.6	59.5	44.9	34.4	25.1	19.4	14.8	10.7	8.8
65°	140.5	117.4	94.2	75.3	57.3	44.5	34.0	24.3	18.0	13.4	9.6
62.5°	169.0	143.1	117.9	92.3	71.5	56.8	42.6	31.7	21.6	15.9	11.3
60°	198.8	171.2	142.2	114.4	89.0	69.5	53.6	38.8	27.8	18.3	13.3
57.5°	227.1	199.4	169.2	137.4	109.6	85.1	64.9	47.9	33.5	22.6	15.1
55°	255.2	227.6	196.2	162.7	130.9	102.9	77.6	57.8	39.8	27.3	16.8
52.5°	282.4	255.5	224.0	188.3	153.6	120.6	92.7	67.3	48.3	31.6	20.2
50°	308.1	282.9	251.5	214.0	175.6	140.2	107.0	79.6	56.5	36.6	23.6
47.5°	332.6	308.4	277.3	238.2	198.0	158.7	122.9	91.6	64.3	43.5	26.8
45°	353.6	332.7	299.7	260.4	219.3	177.6	138.6	102.7	74.1	50.0	29.7
42.5°	373.8	352.4	319.2	281.4	238.8	195.8	153.3	115.6	83.3	56.3	34.0
40°	390.8	367.5	336.8	298.8	257.1	212.9	168.6	127.9	91.7	62.6	39.1
37.5°	404.7	380.3	350.5	315.4	273.8	228.6	183.0	139.2	100.2	69.5	43.9
35°	412.8	391.4	363.9	329.3	288.3	243.2	196.2	150.2	109.5	75.8	48.3
32.5°	420.7	401.2	374.2	341.0	301.8	256.6	208.3	161.1	118.0	81.5	52.4
30°	426.9	408.4	383.9	352.2	313.7	268.0	219.4	170.9	125.6	86.5	56.3
27.5°	432.7	415.5	392.7	361.2	323.1	278.5	229.5	179.7	132.3	91.4	60.3
25°	437.8	421.0	398.7	369.1	331.8	288.0	238.4	187.3	138.9	96.8	63.7
22.5°	441.4	425.8	404.5	376.5	339.7	296.4	246.0	194.3	144.9	101.3	66.7
20°	445.1	430.5	410.0	382.9	346.0	302.4	252.4	200.3	150.0	105.2	69.1
17.5°	448.3	434.1	413.8	386.9	351.0	307.5	257.8	205.1	154.1	108.2	71.0
15°	450.6	436.6	416.9	390.3	355.2	311.8	262.1	208.9	157.2	110.5	72.5
12.5°	452.7	438.9	419.6	393.3	358.6	315.0	265.3	211.5	159.3	112.1	73.4
10°	454.4	440.7	421.8	395.5	361.2	317.2	267.4	213.1	160.5	113.0	73.9
7.5°	455.8	442.2	423.4	397.0	362.7	318.4	268.2	213.5	160.8	113.1	73.9
5°	456.9	443.1	424.2	397.6	363.3	318.4	267.9	212.9	160.1	112.5	73.4
2.5°	457.5	443.4	424.3	397.4	362.7	317.2	266.4	211.1	158.5	111.3	72.6
0°	457.6	443.2	423.6	396.1	360.8	314.8	263.6	208.3	156.1	109.5	71.3
-2.5°	457.5	443.4	424.3	397.4	362.7	317.2	266.4	211.1	158.5	111.3	72.6
-5°	456.9	443.1	424.2	397.6	363.3	318.4	267.9	212.9	160.1	112.5	73.4
-7.5°	455.8	442.2	423.4	397.0	362.7	318.4	268.2	213.5	160.8	113.1	73.9
-10°	454.4	440.7	421.8	395.5	361.2	317.2	267.4	213.1	160.5	113.0	73.9
-12.5°	452.7	438.9	419.6	393.3	358.6	315.0	265.3	211.5	159.3	112.1	73.4
-15°	450.6	436.6	416.9	390.3	355.2	311.8	262.1	208.9	157.2	110.5	72.5
-17.5°	448.3	434.1	413.8	386.9	351.0	307.5	257.8	205.1	154.1	108.2	71.0
-20°	445.1	430.5	410.0	382.9	346.0	302.4	252.4	200.3	150.0	105.2	69.1



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	441.4	425.8	404.5	376.5	339.7	296.4	246.0	194.3	144.9	101.3	66.7
-25°	437.8	421.0	398.7	369.1	331.8	288.0	238.4	187.3	138.9	96.8	63.7
-27.5°	432.7	415.5	392.7	361.2	323.1	278.5	229.5	179.7	132.3	91.4	60.3
-30°	426.9	408.4	383.9	352.2	313.7	268.0	219.4	170.9	125.6	86.5	56.3
-32.5°	420.7	401.2	374.2	341.0	301.8	256.6	208.3	161.1	118.0	81.5	52.4
-35°	412.8	391.4	363.9	329.3	288.3	243.2	196.2	150.2	109.5	75.8	48.3
-37.5°	404.7	380.3	350.5	315.4	273.8	228.6	183.0	139.2	100.2	69.5	43.9
-40°	390.8	367.5	336.8	298.8	257.1	212.9	168.6	127.9	91.7	62.6	39.1
-42.5°	373.8	352.4	319.2	281.4	238.8	195.8	153.3	115.6	83.3	56.3	34.0
-45°	353.6	332.7	299.7	260.4	219.3	177.6	138.6	102.7	74.1	50.0	29.7
-47.5°	332.6	308.4	277.3	238.2	198.0	158.7	122.9	91.6	64.3	43.5	26.8
-50°	308.1	282.9	251.5	214.0	175.6	140.2	107.0	79.6	56.5	36.6	23.6
-52.5°	282.4	255.5	224.0	188.3	153.6	120.6	92.7	67.3	48.3	31.6	20.2
-55°	255.2	227.6	196.2	162.7	130.9	102.9	77.6	57.8	39.8	27.3	16.8
-57.5°	227.1	199.4	169.2	137.4	109.6	85.1	64.9	47.9	33.5	22.6	15.1
-60°	198.8	171.2	142.2	114.4	89.0	69.5	53.6	38.8	27.8	18.3	13.3
-62.5°	169.0	143.1	117.9	92.3	71.5	56.8	42.6	31.7	21.6	15.9	11.3
-65°	140.5	117.4	94.2	75.3	57.3	44.5	34.0	24.3	18.0	13.4	9.6
-67.5°	112.9	94.4	76.6	59.5	44.9	34.4	25.1	19.4	14.8	10.7	8.8
-70°	90.3	74.0	59.3	46.0	33.6	24.6	19.8	15.5	11.5	9.6	7.9
-72.5°	68.6	55.7	43.6	32.5	24.9	19.1	15.1	12.0	10.2	8.6	7.0
-75°	47.8	39.3	31.8	24.8	18.5	13.7	12.1	10.5	8.9	7.5	6.2
-77.5°	34.6	28.1	22.1	17.9	14.4	11.8	10.3	9.0	7.7	6.5	5.4
-80°	23.8	20.2	16.9	14.1	11.7	9.8	8.6	7.5	6.5	5.5	4.5
-82.5°	15.9	13.9	12.2	10.6	9.1	7.9	7.0	6.1	5.2	4.4	3.6
-85°	10.3	9.3	8.3	7.4	6.6	6.0	5.2	4.4	3.7	3.0	2.4
-87.5°	5.1	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	1.5	1.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.7	0.5	0.3	0.2	0.1	0.0
85°	1.9	1.4	1.0	0.6	0.3	0.1	0.0
82.5°	2.8	2.1	1.4	0.9	0.5	0.2	0.0
80°	3.6	2.7	1.9	1.2	0.7	0.3	0.0
77.5°	4.3	3.3	2.4	1.5	0.9	0.3	0.0
75°	4.9	3.8	2.8	1.8	1.0	0.4	0.0
72.5°	5.6	4.3	3.2	2.1	1.2	0.5	0.0
70°	6.2	4.8	3.5	2.4	1.3	0.5	0.0
67.5°	6.9	5.2	3.9	2.6	1.5	0.6	0.0
65°	7.6	5.7	4.2	2.8	1.6	0.7	0.0
62.5°	8.3	6.3	4.5	3.0	1.8	0.7	0.0
60°	8.9	6.8	4.8	3.2	1.9	0.8	0.0
57.5°	10.3	7.3	5.1	3.4	2.0	0.8	0.0
55°	11.7	7.7	5.5	3.6	2.1	0.9	0.0
52.5°	12.9	8.3	5.8	3.7	2.2	0.9	0.0
50°	14.1	9.2	6.1	3.9	2.3	1.0	0.0
47.5°	15.4	10.0	6.4	4.0	2.4	1.0	0.0
45°	17.9	10.8	6.7	4.2	2.5	1.0	0.0
42.5°	20.1	11.5	6.9	4.4	2.5	1.1	0.0
40°	22.1	12.1	7.3	4.6	2.6	1.1	0.0
37.5°	24.0	12.7	7.7	4.7	2.7	1.1	0.0
35°	25.5	13.7	8.1	4.9	2.7	1.2	0.0
32.5°	27.6	15.0	8.4	5.0	2.7	1.2	0.0
30°	30.8	16.0	8.7	5.1	2.8	1.2	0.0
27.5°	33.7	17.0	9.0	5.2	2.8	1.2	0.0
25°	36.3	17.7	9.1	5.2	2.8	1.2	0.0
22.5°	38.6	18.4	9.3	5.3	2.8	1.3	0.0
20°	40.5	18.8	9.4	5.3	2.8	1.3	0.0
17.5°	42.2	19.1	9.4	5.4	2.8	1.3	0.0
15°	43.5	19.3	9.4	5.4	2.8	1.3	0.0
12.5°	44.5	19.3	9.3	5.3	2.8	1.3	0.0
10°	45.2	19.2	9.2	5.3	2.8	1.3	0.0
7.5°	45.5	19.0	9.1	5.3	2.7	1.2	0.0
5°	45.5	18.6	8.9	5.2	2.7	1.2	0.0
2.5°	45.1	18.2	8.7	5.1	2.6	1.2	0.0
0°	44.5	17.6	8.4	5.0	2.6	1.2	0.0
-2.5°	45.1	18.2	8.7	5.1	2.6	1.2	0.0
-5°	45.5	18.6	8.9	5.2	2.7	1.2	0.0
-7.5°	45.5	19.0	9.1	5.3	2.7	1.2	0.0
-10°	45.2	19.2	9.2	5.3	2.8	1.3	0.0
-12.5°	44.5	19.3	9.3	5.3	2.8	1.3	0.0
-15°	43.5	19.3	9.4	5.4	2.8	1.3	0.0
-17.5°	42.2	19.1	9.4	5.4	2.8	1.3	0.0
-20°	40.5	18.8	9.4	5.3	2.8	1.3	0.0

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REPORT NUMBER: P670571 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	38.6	18.4	9.3	5.3	2.8	1.3	0.0
-25°	36.3	17.7	9.1	5.2	2.8	1.2	0.0
-27.5°	33.7	17.0	9.0	5.2	2.8	1.2	0.0
-30°	30.8	16.0	8.7	5.1	2.8	1.2	0.0
-32.5°	27.6	15.0	8.4	5.0	2.7	1.2	0.0
-35°	25.5	13.7	8.1	4.9	2.7	1.2	0.0
-37.5°	24.0	12.7	7.7	4.7	2.7	1.1	0.0
-40°	22.1	12.1	7.3	4.6	2.6	1.1	0.0
-42.5°	20.1	11.5	6.9	4.4	2.5	1.1	0.0
-45°	17.9	10.8	6.7	4.2	2.5	1.0	0.0
-47.5°	15.4	10.0	6.4	4.0	2.4	1.0	0.0
-50°	14.1	9.2	6.1	3.9	2.3	1.0	0.0
-52.5°	12.9	8.3	5.8	3.7	2.2	0.9	0.0
-55°	11.7	7.7	5.5	3.6	2.1	0.9	0.0
-57.5°	10.3	7.3	5.1	3.4	2.0	0.8	0.0
-60°	8.9	6.8	4.8	3.2	1.9	0.8	0.0
-62.5°	8.3	6.3	4.5	3.0	1.8	0.7	0.0
-65°	7.6	5.7	4.2	2.8	1.6	0.7	0.0
-67.5°	6.9	5.2	3.9	2.6	1.5	0.6	0.0
-70°	6.2	4.8	3.5	2.4	1.3	0.5	0.0
-72.5°	5.6	4.3	3.2	2.1	1.2	0.5	0.0
-75°	4.9	3.8	2.8	1.8	1.0	0.4	0.0
-77.5°	4.3	3.3	2.4	1.5	0.9	0.3	0.0
-80°	3.6	2.7	1.9	1.2	0.7	0.3	0.0
-82.5°	2.8	2.1	1.4	0.9	0.5	0.2	0.0
-85°	1.9	1.4	1.0	0.6	0.3	0.1	0.0
-87.5°	0.9	0.7	0.5	0.3	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)